

**ABSTRACT**

A method of manufacturing an isotropic pitch-based carbon fiber spun yarn fabric includes the following steps of: obtaining composite yarn by winding a water-soluble polymer fiber around a surface of isotropic pitch-based carbon fiber spun yarn; obtaining a composite yarn fabric by weaving the composite yarn; and obtaining the isotropic pitch-based carbon fiber spun yarn fabric by dissolving and removing the water-soluble polymer fiber from the composite yarn fabric.